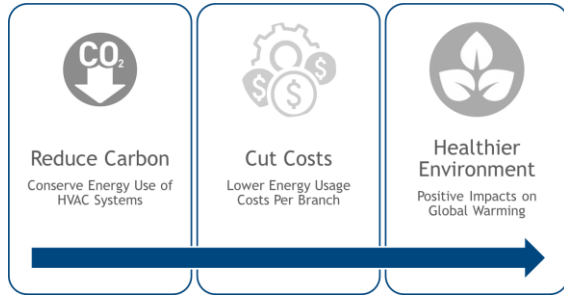
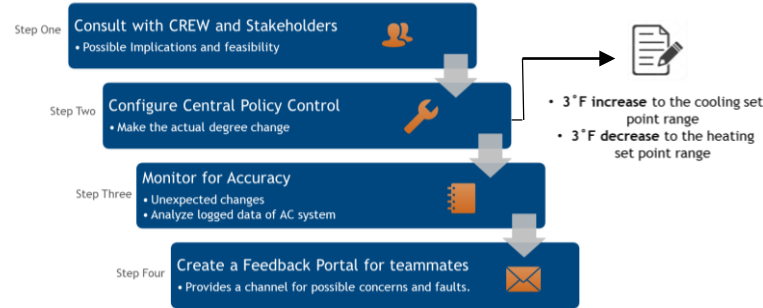


Overview



Steps

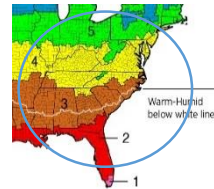


Current & Future State

	Occupied Hours	Unoccupied Hours
Current State	SunTrust Set Point Range Cooling period: 72°F - 77°F Heating period: 67°F - 69°F	SunTrust Set Point Range Cooling period: 82°F - 85°F Heating period: 58°F - 62°F
Future State	SunTrust Set Point Range Cooling period: 72°F - 80°F Heating period: 64°F - 69°F	SunTrust Set Point Range Cooling period: 82°F - 88°F Heating period: 55°F - 62°F

* These are ranges because our branches are in different regions

Scope



Co-Benefits

- Increase teammate's comfort at work
- Lessens sometime dramatic climate change from outside office to inside

Proposal Approval Process

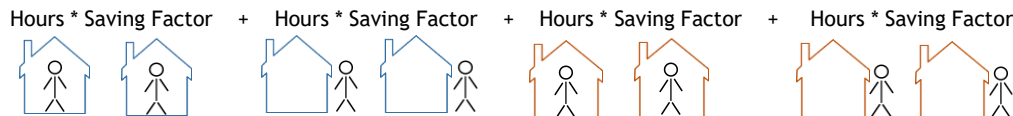


Cost Analysis

- Given total energy cost and total carbon emissions of each branch
- Berkeley Set Point Calculator gave us saving factors

$$1) \text{ Total Electricity Consumed by Branches By State (kWh)} * \text{ Energy Saving Discount Factor By State} = \text{ Electricity Saved By State (kWh)}$$

Energy Saving Discount Factor =



Repeated for each state:

$$2) \text{ Electricity Saved By State (kWh)} * \text{ Electricity Rate By State (cents per kWh)} = \text{ Electricity Cost Saved By State ($)}$$

Total Cost Saved Per Year

\$346,723

Carbon Analysis

- Average carbon emitted by kWh is from the EPA (Environmental Protection Agency)

$$1) \text{ Electricity Saved In total (kWh)} * \text{ Average Carbon Emitted By Electricity (lb. of CO}_2\text{/kWh)} = \text{ Total Carbon Emissions (lbs.)}$$

$$2) 2,863,473 \text{ kWh} * 1.55 \text{ lb. of CO}_2\text{/kWh} = 4,438,384 \text{ lbs.}$$

Equivalent to the carbon sequestered by 2,369 acres or 6 Georgia Tech campuses of US forests in one year

Total Carbon Emissions Saved Per Year

4,438,384 lbs.